

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	32	"130876"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 14:55
L2	2	"11130876"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 15:00
L3	58	sliding adj (member or element or part or surface or structure or component) and carbon adj matrix	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 15:01
L4	0	sliding adj (member or element or part or surface or structure or component) and carbon adj matrix and carbon adj aggregate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 15:01
L5	5	sliding adj (member or element or part or surface or structure or component) and carbon adj matrix and carbon adj aggregate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 15:31
L6	5	(sliding or friction) adj (member or element or part or surface or structure or component) and carbon adj matrix and carbon adj aggregate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 15:31
L7	209	(sliding or friction) near2 (member or element or part or surface or structure or component) and carbon adj matrix and carbon	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 15:31
L8	0	(sliding or friction) near2 (member or element or part or surface or structure or component) and carbon adj matrix and (spehrical or round) with isolated with (pore or void)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 15:32
L9	2	(sliding or friction) near2 (member or element or part or surface or structure or component) and carbon adj matrix and (spehrical or round) with (pore or void or hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 15:48
L10	2	(sliding or friction) near2 (member or element or part or surface or structure or component) and carbon adj matrix and (spehrical or round) with (pore or void or hole or cavit\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 15:33
L11	1	(sliding or friction) near2 (member or element or part or surface or structure or component) and carbon adj matrix and (isolated) with (pore or void or hole or cavit\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 15:33
L12	4	(sliding or friction) near2 (member or element or part or surface or structure or component) and carbon adj matrix and (pmma or polymethyl adj methacrylate)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 15:37
L13	1	(428/544.cds. or 428/323.cds. or 524/332.cds. or 428/359.cds. or 428/364.cds. or 428/397.cds. or 428/364.cds. or 428/397.cds. or 428/401.cds.) and carbon adj matrix and (pmma or polymethyl adj methacrylate)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 15:47
L14	0	carbon adj matrix and (spehrical or round) with isolated with (pore or void or hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 15:48

## EAST Search History

L15	0	carbon adj matrix and (spherical or round) with isolated with (pore or void or hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 15:48
L16	1	carbon adj matrix and (spherical or round) same isolated same (pore or void or hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 15:48
L17	9	(sliding or friction) near2 (member or element or part or surface or structure or component) and carbon adj matrix and (spherical or round) same (pore or void or hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 15:49
L18	3	(sliding or friction) near2 (member or element or part or surface or structure or component) and carbon adj matrix and isolat\$4 same (pore or void or hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 15:59
L19	5	bearing and carbon adj matrix and isolat\$4 same (pore or void or hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 16:03
L20	6	bearing and carbon adj matrix and (isolat\$4 or scattered or discontinuous) same (pore or void or hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 16:04
L21	17	(bearing or tribological or friction) and carbon adj matrix and (spherical or round) same (pore or void or hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 16:07
L22	14	(bearing or tribological or friction) and carbon adj matrix and (isolat\$4 or scattered or discontinuous) same (pore or void or hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/05/01 16:07
S1	293	carbon adj aggregate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:14
S2	4	S1 same thermosetting adj resin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:21
S3	3	carbon adj sliding adj element	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:21
S4	47	carbon adj sliding and seal\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:21
S5	2	S4 and thermosetting adj resin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:28
S6	41700	seal adj ring	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:34
S7	50	S6 and carbon and phenolic adj (resin or binder)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:34

## EAST Search History

S8	19	S6 and carbon same phenolic adj (resin or binder)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:29
S9	48647	seal adj ring or sliding adj element	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:34
S10	71	S9 and carbon and phenolic adj (resin or binder)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:35
S11	99859	S10 and por\$5 or pore adj (size or diameter or dimension)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:35
S12	62	S10 and (por\$5 or pore adj (size or diameter or dimension))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:36
S13	59	S9 and carbon same (phenolic or thermoset\$6) adj (resin or binder)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:51
S14	48	S13 and (por\$5 or pore adj (size or diameter or dimension))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:37
S15	23	S13 and (poro\$5 or pore adj (size or diameter or dimension))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:43
S16	4	S13 and (pore adj (size or diameter or dimension))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:44
S17	639832	(seal\$3 or slid\$4).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:43
S18	394	S17 and carbon same (phenolic or thermoset\$6) adj (resin or binder)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:43
S19	17	S18 and (pore adj (size or diameter or dimension))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:51
S20	17	S19 not S15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:49
S21	83	mechanical adj seal\$3 and carbon adj3 composite	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:50
S22	135	S9 and carbon and(phenolic or thermoset\$6) adj (resin or binder)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:50

## EAST Search History

S23	59	S13 and carbon same (phenolic or thermoset\$6) adj (resin or binder)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:51
S24	59	S13 and carbon and (phenolic or thermoset\$6) adj (resin or binder)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:51
S25	135	S9 and carbon and (phenolic or thermoset\$6) adj (resin or binder)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:53
S26	10	S25 and (pore adj (size or diameter or dimension))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:56
S27	10	S26 not S20	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:51
S28	150	S9 and carbon and (phenolic or thermoset\$6) adj (polymer or resin or binder)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:56
S29	13	S28 and (pore adj (size or diameter or dimension))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:54
S30	3	S29 not S27	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:54
S31	14680	carbon with composite and (lubric\$6 or seal\$3 or slid\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:55
S32	2333	S31 and carbon and (phenolic or thermoset\$6) adj (polymer or resin or binder)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 17:00
S33	253	S32 and (pore adj (size or diameter or dimension))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 16:56
S34	85	S32 and (pore adj (size or diameter or dimension)) with (micron or micrometer)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 17:00
S35	168	S33 not S34	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 17:00
S36	28	S35 and (carbon and (phenolic or thermoset\$6) adj (polymer or resin or binder)).dm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 17:03
S37	1	S35 and (carbon and (phenolic or thermoset\$6) adj (polymer or resin or binder)).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/21 17:03

## EAST Search History

S38	27066	(slid\$4 or seal\$4) with carbon	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/11/28 09:54
S39	27182	(slid\$4 or seal\$4) with carbon	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:16
S40	11289	S39 and (resin\$3 or polymer\$2 or copolymer\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 09:55
S41	691	S40 and carbon adj2 composite	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 09:57
S42	190	S40 and carbon adj2 carbon adj2 composite	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:14
S43	100	S42 and (phenol\$2 or epoxy or furan or polyester) adj3 resin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:13
S44	17	S43 and (poro\$3 or pore) adj3 (size or dimension or diameter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:15
S45	0	S43 and ((resin or polymer\$2) adj2 (bead or spher\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:11
S46	0	S43 and ((resin or polymer\$2) adj2 (bead or spher\$5 or microspher\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:12
S47	217	S40 and ((resin or polymer\$2) adj2 (bead or spher\$5 or microspher\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:13
S48	0	S42 and ((resin or polymer\$2) adj2 (bead or spher\$5 or microspher\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:15
S49	464859	((phenol\$2 or epoxy or furan or polyester or thermoset\$4) adj3 resin or thermoset)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:14
S50	489311	(phenol\$2 or epoxy or furan or polyester or thermoset\$4) adj3 (resin or polymer) or thermoset	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:22
S51	783	S50 and carbon adj2 carbon adj2 composite	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:14
S52	102	S51 and (poro\$3 or pore) adj3 (size or dimension or diameter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 11:19

## EAST Search History

S53	0	S52 and ((resin or polymer\$2) adj2 (bead or spher\$5 or microspher\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:15
S54	10341	((slid\$4 or seal\$4) with carbon).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:19
S55	1	S52 and S54	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:19
S56	2713	((slid\$4 or seal\$4) with carbon).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:19
S57	2	S52 and S56	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:20
S58	3523	((slid\$4 or seal\$4) with carbon).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:22
S59	0	S52 and S58	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:20
S60	281	S58 and S50	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:20
S61	132	S54 and S60	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:20
S62	49297	binder same ((phenol\$2 or epoxy or furan or polyester or thermoset\$4) adj3 (resin or polymer) or thermoset)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 11:16
S63	524	((slid\$4 or seal\$4) with carbon) and S62	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:22
S64	114	S63 and (poro\$3 or pore) adj3 (size or dimension or diameter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 11:18
S65	6	S64 and carbon adj2 carbon adj2 composite	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 10:30
S66	178	S62 and carbon adj4 aggregate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 11:17
S67	174	S66 not S64	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 11:39

## EAST Search History

S68	28	S67 and (pore\$3 or pore) adj3 (size or dimension or diameter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 11:24
S69	36	S67 and (pore\$3 or pore) with (size or dimension or diameter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 11:25
S70	0	S68 not S67	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 11:24
S71	8	S69 not S68	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 11:25
S72	474	orita near masafumi.in. or okubo near shuichi.in. or mukai near koichiro.in. or fujimoto near kenichi.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 11:41
S73	81	S72 and carbon	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 11:41
S74	6	S72 and carbon and pore\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/11/28 11:41
S75	7023	sliding adj element	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 10:42
S76	339	sliding adj element and carbon	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 10:42
S77	118	sliding adj element and carbon and resin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 10:42
S78	15	sliding adj element and carbon and thermosetting near resin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 10:42
S79	2146020	sliding adj element and carbon and thermosetting near resin or (polymer or copolymer)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 10:43
S80	98	(sliding adj element) and carbon and (thermosetting near resin or (polymer or copolymer))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 10:43
S81	21	(sliding adj element) and carbon and (thermoset\$5 near (resin or (polymer or copolymer)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 11:54
S82	1	S81 and pore adj (size or diameter or dimension)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 11:55

## EAST Search History

S83	24	(sliding adj element) and carbon and (phenolic adj (resin or polymer) or phenol adj formaldehyde or novolak or resole)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:01
S84	22	S83 not S81	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 11:47
S85	28	eagle and sliding adj element	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 11:48
S86	47	((sliding or friction) adj (element or bod\$3)) and carbon same (thermoset\$5 near (resin or (polymer or copolymer)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 11:58
S87	33	S86 not S81	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 11:58
S88	2	S87 and pore adj (size or diameter or dimension)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 11:58
S89	126	((sliding or friction) adj (element or bod\$3 or member)) and carbon same (thermoset\$5 near (resin or (polymer or copolymer)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:01
S90	112	S89 not S81	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 12:04
S91	11	S90 and pore adj (size or diameter or dimension)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:03
S92	2	S90 and porous adj composite	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 12:03
S93	165	((sliding or friction) adj (element or bod\$3 or member or part)) and carbon same (thermoset\$5 near (resin or (polymer or copolymer)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:01
S94	415	((sliding or friction) adj (element or bod\$3 or member or part or material)) and carbon same (thermoset\$5 near (resin or (polymer or copolymer)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:01
S95	95880	((sliding or friction) adj (element or bod\$3 or member or part or material))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 14:19
S96	70537	carbon and (phenolic adj (resin or polymer) or phenol adj formaldehyde or novolak or resole or furan)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:02
S97	19302	carbon same (phenolic adj (resin or polymer) or phenol adj formaldehyde or novolak or resole or furan)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 14:19



## EAST Search History

S98	19302	S96 and S97	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:02
S99	1095	S96 and S95	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:02
S10 0	49310	((sliding or friction) adj (element or bod\$3 or member or part or material))).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:04
S10 1	348	S97 and S100	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:57
S10 2	23	S101 and pore adj (size or diameter or dimension)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:05
S10 3	16224	((sliding or friction) adj (element or bod\$3 or member or part or material))).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:04
S10 4	298	S97 and S103	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:52
S10 5	20	S104 and pore adj (size or diameter or dimension)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:05
S10 6	3	S104 and shore adj hardness	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:40
S10 7	45	S97 and S103 and (spher\$6 or micropsher\$6 or organic near5 partic\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:47
S10 8	41	S97 and S103 and (pmma or acrylate or methacrylate or polystyrene or polymethyl adh methacrylate or polyacrylic or polyethylene or nylon)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:48
S10 9	7	S97 and S103 and carbon with aggregate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:52
S11 0	5	S97 and S100 and carbon adj4 aggregate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:57
S11 1	1	S110 not S109	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:58
S11 2	6417	428/327.cds. or 428/323.cds.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:58

## EAST Search History

S11 3	27	S112 and S103	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 13:58
S11 4	12118	((sliding or friction) adj (seal\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 14:19
S11 5	9	S97 and S114	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/05 14:19
S11 6	24	carbon adj carbon adj composite and sliding adj (part or element or component or material or member)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:34
S11 7	2	carbon same thermost\$5 and sliding adj (part or element or component or material or member)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:23
S11 8	180	carbon same thermoset\$5 and sliding adj (part or element or component or material or member)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:28
S11 9	47	S118 and (polymethyl adj methacrylate or pmma or polybutyl adj methacrylate or polystyrene or poly adj styrene or poly adj (butyl or methyl) adj methacrylate or polyethylene or polyacrylic or polyacrylate or acrylate or nylon)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:26
S12 0	4	S118 and (polymethyl adj methacrylate or pmma or polybutyl adj methacrylate or polystyrene or poly adj styrene or poly adj (butyl or methyl) adj methacrylate or polyethylene or polyacrylic or polyacrylate or acrylate or nylon) same (spher\$6 or microspher\$6 or fine adj partic\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:28
S12 1	31074	(polymethyl adj methacrylate or pmma or polybutyl adj methacrylate or polystyrene or poly adj styrene or poly adj (butyl or methyl) adj methacrylate or polyethylene or polyacrylic or polyacrylate or acrylate or nylon) same(spher\$6 or microspher\$6 or fine adj partic\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:28
S12 2	31074	(polymethyl adj methacrylate or pmma or polybutyl adj methacrylate or polystyrene or poly adj styrene or poly adj (butyl or methyl) adj methacrylate or polyethylene or polyacrylic or polyacrylate or acrylate or nylon) same (spher\$6 or microspher\$6 or fine adj partic\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:28
S12 3	354	carbon and thermoset\$5 and sliding adj (part or element or component or material or member)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:32
S12 4	11	S123 and S122	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:33
S12 5	542	carbon and thermoset\$5 and sliding adj3 (part or element or component or material or member)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:34
S12 6	19	S125 and S122	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:33

## EAST Search History

S12 7	8	S126 not S124	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:33
S12 8	2	S116 and S122	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:34
S12 9	1894	carbon and (thermoset\$5 or phenol\$2 or novolac or resole or furan or epox\$3 or formaldehyde) and sliding adj3 (part or element or component or material or member)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:44
S13 0	79	S129 and S122	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:36
S13 1	60	S130 not S126	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:47
S13 2	2012	carbon and (thermoset\$5 or phenol\$2 or novolac or resole or furan or epox\$3 or formaldehyde) and (sliding adj3 (part or element or component or material or member or ring) or (mechanical adj seal43))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 11:06
S13 3	82	S132 and S122	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:45
S13 4	22	S133 not S131	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:49
S13 5	1406	porous adj composite	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 11:06
S13 6	3	S132 and S135	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:50
S13 7	3518	spherical adj4 resin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:50
S13 8	9	S137 and S132	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 10:50
S13 9	4413	porous adj4 composite	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 11:06
S14 0	18	S139 and S132	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 11:06
S14 1	17	S140 not S138	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/07 11:06